

THE UNIVERD STAYES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

A&PL Technology Holding Company, LLG

MOCCUS, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY SEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC SPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR ING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE PROSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SOYBEAN

'1686017'

In Cestimonn Thereof, I have hereunto set my hand and caused the seal of the Hunt Haristy Protection Office to be affixed at the City of Washington, D.C. this twenty-third day of November, in the year two thousand and seven.

Allost:

Q2~ Zee

Commissioner Plant Varioty Protection Office Agricultural Marketing Service Secret Slure

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE The following statements are made in accordance with the Privacy Act of 1974 (5U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

SCIENCE AND TECHNOLOGY DIVISION - PLANT VARIETY PROTECTION OFFICE

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

(Monadana and Shormani collection burde)	ii statement on leve	130/	1			
1. NAME OF OWNER			2. TEMPORARY DESIGNATION EXPERIMENTAL NAME	N OR 3. VARIETY NAME		
D&PL Technology Holding Company,	LLC.		98-07088	1686017		
4. ADDRESS (Street and No., or R.F.D. No., City, State, and 2	ZIP Code, and Cour	ntry)	5. TELEPHONE (include area c	ode)		
PO Box 157			(662) 742-414	PVPO NUMBER		
100 Main Street			(602) 1 12 4 1 1	#200700123		
Scott, Mississippi 38772 USA			6. FAX (include area code)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
		ž.	(662) 742-318	2 FILING DATE		
7. IF THE OWNER IS NOT A "PERSON" GIVE FORM OF	8. IF INCORE	PORATED, GIVE	9. DATE OF INCORPORATION	21/12022		
ORGANIZATION (corporation, partnership, association, etc.) STATE OF INCOR.				2/6/2007		
Limited Liability Company		laware	February 29, 19			
10. NAME AND ADDRESS OF OWNER REPRESENTATIVE	(S) TO SERVE IN T	THIS APPLICATION	. (First person listed will receive all papers)	FILING AND EXAMINATION FEE:		
Delta and Pine Land Company						
Kelly Casavechia				\$ 4,382.00 DATE 2/6/2007		
P.O. Box 157 Scott, MS 38772				DATE 2 16/21707		
book, mo our a				CERTIFICATION FEE:		
				s 768.00		
<i>i</i>				DATE 10/4/07		
11. TELEPHONE (include area code) 12. FAX (include area	code)	13. E_M/	AIL	14. CROP KIND (Common Name)		
·						
(662) 742-4141 (662) 15. GENUS AND SPECIES NAME OF CROP	742-3182		y.h.casavechia@deltaandpine.com	Soybean		
13. GENOS AND SPECIES NAME OF CROP	110. 1	FAMILY NAME (Bot	anical)	17. IS THE VARIETY A FIRST GENERATION HYBRID?		
Glycine Max		L	EGUMINOSAE	YES XNO		
 CHECK APPROPRIATE BOX FOR EACH ATTACHMENT reverse). 	SUBMITTED (Folio	ow instructions on	 DOES THE OWNER SPECIFY THAT SEE CERTIFIED SEED? (See Section 83(a) or 	ED OF THIS VATIETY BE SOLD AS A CLASS OF		
a. x Exhibit A. Origin and Breeding History of the Variety	<i>(</i>					
b. X Exhibit B. Statement of Distinctness c. X Exhibit C. Objective Description of the Variety			YES (If "yes", answer items 20 and 21 below)	XNO (If "no", go to item 22)		
d. X Exhibit D. Additional Description of the Variety (Opti	ional)		The state of the s	OF THIS VARIETY BE LIMITED AS TO NUMBER		
e. X Exhibit E. Statement of the Basis of the Owner's Owner's Owner's Countries of the Owner's	•	l ve detice	OF GENERATIONS?			
verification that tissue culture will be deposited and a			☐YES	Пno		
repository)			21. IF "YES" TO ITEM 20, WHICH CLASSES	OF PRODUCTION BEYOND BREEDER SEED?		
g. X Filing and Examination Fee (\$2,450), made payable States" (Mail to the Plant Variety Protection Office)	to "I reasurer of the	United	TFOUNDATION TREGIS	STERED CERTIFIED		
2. HAS THE VARIETY (INCLUDING ANY HARVESTED MAT			23. IS THE VARIETY OR ANY COMPONENT OF	THE VARIETY PROTECTED BY INTELLECTUAL		
FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRAN OTHER COUNTRIES?	NSFERRED, OR US	SED IN THE U.S. C	PROPERTY RIGHT (PLANT BREEDER'S RIC	SHI OR PATENTY?		
W' MYES NO WHIST PROVIDE THE DATE OF EXPORT ON I	DIODOGITION TO		XYES NO			
IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE FOR EACH COUNTRY AND THE CIRCUMSTANCES. (PI		· ·	IF YES, GIVE COUNTRY, DATE OF FILIN REFERENCE NUMBER. (Please use spa			
 The owners declare that a viable sample of basic seed of the for a tuber propagated variety a tissue culture will be depose 				ordance with such regulations as may be applicable, or		
The undersigned owner(s) is(are) the owner of this sexually		•		distinct, uniform, and stable as required in Section 42,		
and is entitled to protection under the provisions of Section	42 of the Plant Vari	iety Protection Act.				
Owner(s) is(are) Informed that false representation ferein g	an jeopardize prote					
July on. Jugar	7	SIGNATOR	RE OF OWNER	•		
IAME (Please print or type)	, 	MAME 701	pase print or type)			
, , , , , , ,			ME (Please print or type)			
Jeffrey M. Tyler APACITY OR TITLE DATE			am V. Hugie	Inate.		
a	: 2-02-0	7	PACITY OR TITLE DATE			
Soybean Breeder UA OA Vice F			President/Director of Resear	rch 0202-07		

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Instructions

GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$2,705 (\$320 filing fee and \$2,385 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfilled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 500, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check paybable to "Treasurer of the United States" in the amount of \$320 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

#200700123

Plant Variety Protection Office Telephone: (301) 504-5518 FAX: (301) 504-5291

Homepage: http://www.ams.usda.gov/science/pvpo/pvp.htm

ITEM

18a. Give:

- (1) the genealogy, including public and commercial varieites, lines, or clones used, and the breeding method
- (2) the details of subsequent stages of selection and multiplication;
- (3) evidence of uniformity and stability; and
- (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 18b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of realted varieties:
 - (1) Identify these varieties and state all differences objectively;
 - (2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and
 - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 18c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 18d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 18e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
- 19. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Secion 97.103).
- 22. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
- 23. See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.
- 21. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)
- 22. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)

February 27, 2006

USA

23. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

ROUNDUP READY®:

These seeds are covered under U.S. Patents 5,633,435; 5,352,605; 5,530,196; 5,188,642; 4,940,835; 5,717,084; 5,728,925; and 5,804,425.

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. There is no charge for filing a change of address. The fee for filing a change of ownership or assignment or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority. For example, for agricultural and vegetable crops, contact: Seed Branch, AMS, USDA, Room 213, Building 306, Beltsville Agricultural Research Center-East, Beltsville, MD 20705. Telephone: (301) 504-8089. http://www.ams.usda.gov/lsg/seed/ls-sd.htm

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to repond to a collection of information unless it displays a valid OMB control number for this collection of information is (0581-0055). The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U. S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, sex, religion, age, disability, political beliefs, sexual orientation, or marital or family status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD). To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call (202) 720-5864 (voice and TDD). USDA is an equal opportunity provider and employer.

S&T -470 (04-01) designed by the Plant Variety Protection Office with WordPerfect 6.0a. Replaces STD-470 (02-99) which is obsolete.

DELTA AND PINE LAND APPLICATION FOR:

1686017

EXHIBIT A

Origin and Breeding History of the Variety

Summer 1996 Original cross made at Scott, MS between DP 5644 RR and DPX 5225

Winter 1996-1997 F1 advanced to F2 under lights in Costa Rica

Summer –Fall 1997 F2 advanced to F4 by the bulk pod method in Costa Rica

Winter 1997-1998 F4 seed planted and about 200 single plants were selected

Summer 1998 About 200 F5 rows were planted at Hartsville, SC and row 98-07088 was found to be uniform for the characteristics listed in Exhibit C of this application.

Row 98-07088 was selected for apparent yield and general adaptation, based on visual assessment of these traits: absence of plant lodging, medium to tall plant height, and absence of Frog Eye leafspot. The plants in row 98-07088 were

harvested in bulk.

Summer 1999 98-07088 was yield tested at Hartsville, SC and was advanced based on

measured seed yield.

Summer 2000 98-07088 was yield tested at 6 locations in southern US. It was advanced based

on measured seed yield.

Summer 2001 98-07088 was yield tested at 7 locations in southern US. It was advanced based

on measured seed yield.

Summer 2002 98-07088 was yield tested at 6 locations in southern US. Individual plants were

harvested out of the border rows to begin the purification process.

Summer 2003 98-07088 was tested at 5 Southern US locations.

Summer 2004 98-07088 was tested at 6 Southern US locations. Approximately 43 units (50

pound) were produced. Variety name 1686017 was assigned. After six years of testing and three years of seed increase, 1686017 has been observed to be uniform and genetically stable over generations for characteristics listed in

Exhibit C of this application. No variants were observed.

DELTA AND PINE LAND APPLICATION FOR:

1686017

Exhibit B

Statement of Distinctness

NOVELTY STATEMENT

To our knowledge, 1686017 most resembles 'BENNING'. Differences include but are not restricted to the following:

- 1. 1686017 has white flower color whereas 'BENNING' has purple flower color.
- 2. 1686017 is highly tolerant to Glyphosate herbicide whereas 'BENNING' is not.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this collection of information is (05840055). The time required to complete this information collection is estimated to average 30 minutes per response, including the time for reviewing instructions searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, sex, religion, age, disability, political beliefs, sexual orientation, and marital or family status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact the USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 328V, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 202599410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MD 20705 EXHIBIT C (Soybean)

OBJECTIVE DESCRIPTION OF VARIETY SOYBEAN (Glycine max (L.) Merr.)

NAME OF APPLICANT(S) D&PL TECHNOLOGY HOLDING COMPANY, LLC.							FOR OFFICIAL USE ONLY			
ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code)								#200070012		
D&PL TECH P.O. BOX 1	57			ЮМР	ANY, I	LLC.				VARIETY NAME 1686017
SCOTT, MI	SSISSIPPI	38772	?							TEMPORARY OR EXPERIMENTAL DESIGNATION 98-07088
PLEASE READ A below.	LL INSTRUC	CTION	S CAI	REFU	LLY: P	ace th	e appı	opriate numb	er that describes the	varietal character of this variety in the boxes
Place a zero in the quantitative	first box (e.g	9	9	9	or	0	9) when nur	nber is either 99 or le	ess or 9 or less respectively. Data for
	ould be based	l on a r	ninim	um of	100 pla	nts. (Compa	rative data sh	ould be determined f	from varieties entered in the same trial. Roy
Horticultural Socie	ty or any rec	ognize	d colo	r stan	dard ma	ıy be ı	ised to	determine pla	ent colors; designate	system used:
Please answer all q A. MORPHOL		our va	riety;	lack o	of respon	ise ma	y dela	y progress of	your application.	
Seed Shape:	001							•		
	Spherical V, L/T, an	d T/V	V rat	ios <	< 1.2)				ical-Flattened > 1.2; L/T rati	io < 1.2)
	Elongate ' ratio > 1	.2; T	/W ra	atio	< 1.2)	ı			ate-Flattened > 1.2;T/W ratio	0 > 1.2)
Seed Coat Color:	:									
1 =	Yellow		2 =	Gre	en		3 =	Brown	4 = Black	5 = Other (Please Specify)
Seed Coat Luster	•									
1 =	Dull		2 =	Shir	ıy				•	
Seed Size:										
1 3	grams/100	seeds	۱.							
Hilum Color:										
6 1 = 6 =	Buff Black		2 = 7 =		ow er (<i>Ple</i>	ase S		Brown	4 = Gray	5 = Imperfect Black

A. MORPHOLOGY (Continued)

Cotyledon Color:

#200700123

1 = Yellow

2 = Green

Seed Protein Peroxidase Activity:

1 = Low

2 = High

Hypocotyl Color:

1 = Green

2 = Green with Bronze ('Evans' or 'Davis') Bands below Cotyledon

('Woodworth' or 'Tracy')

3 = Light Purple below Cotyledons ('Beeson' or 'Pickett 71') 4 = Dark Purple extending to unifoliolate leaves ('Hodgson', 'Coker', or 'Hampton 266A')

Leaf Shape:

1 = Lanceolate

2 = Oval

3 = Ovate

4 = Other (Please Specify)

Flower Color:

1 = White

2 = Purple

3 = White with a Purple Throat

Pod Color:

1 = Tan

2 = Brown

3 = Black

Pubescence Color:

1 = Gray

2 = Brown (Tawny)

3 = Light Tawny

Plant Habit:

1 = Determinate

2 = Semi - Determinate

3 = Indeterminate

4 = Intermediate

Maturity Group:

0

1 = 0006 = III11 = VIII 2 = 00

7 = IV12 = IX 3 = 0

8 = V13 = X

4 = I9 = VI 5 = II

14 = XI

10 = VII15 = XII

Maturity Subgroup:

Please enter a value from 0 - 9

B. DISEASE REACTIONS

0 = Not Tested

1 = Susceptible

2 = Resistant

3 = Tolerant

Bacterial

Bacterial Pustule (Xanthomonas campestris pv. glycines (Nakano) Dye)

Bacterial Blight (Pseudomonas syringae pv. glycinea (Coerper) Young, Dye, & Wilkie)

Wildfire Blight (Pseudomonas syringae pv. tabaci (Wolf & Foster) Young, Dye, & Wilkie)

В. Г	DISEASE REACT	IONS (Continued)	0 = Not Tested	1 = Susce	-	2 = Resistant	
Fung	al				7	 2 0 0 7	0012
0	- -1	eptoria glycines He	mmi)		·		
	Frogeye Leaf S	Spot (Cercospora so	iina Hara)				
0	race 1	0	race 2	0	race 3	0 rac	e 4
0	race 5	0	race 6	0	Other (P	lease Specify)	
0	Target Spot (C	orynespora cassiico	la (Berk. & Curt.)	Wei)			
0	Downey Milder	w (Peronospora trif	oliorum var. manch	urica (Naum.) S	Syd. ex Gäu	ım)	
0	Powdery Milde	ew (Microsphaera d	ffusa Cke. & Pk.)				
0	Brown Stem Ro	ot (<i>Phialophora gre</i>	gata (Allington & C	hamberlain) W	. Gams.)		
2	2 Stem Canker (Diaporthe phaseolorum (Cke. & Ell.) Sacc. var. caulivora Athow & Caldwell)						
0	Pod and Stem Blight (Diaporthe phaseolorum (Cke. & Ell.) Sacc. var. sojae (Lehman) Wehm.)						
0	Purple Seed Stain (Cercospora kikuchii (T. Matsu. & Tomoyasu) Gardener)						
Rhizoctonia Root Rot (Rhizoctonia solani Kühn)							
Phytop	ohthora Root Rot	(Phytophthora meg	asperma Drechs. f. :	sp. <i>glycinea</i> (Ku	ıan & Erwi	n))	
0	race 1	0 race 8	0 race 15	0 race 22	2		
0	race 2	0 race 9	0 race 16	0 race 23	3		
0	race 3	0 race 10	0 race 17	0 race 24	4		
0	race 4	0 race 11	0 race 18	0 race 25	5		

race 26

Other (Please Specify)

0 Bud Blight (Tobacco Ringspot Virus)

0

0

race 5

race 6

race 7

0

Yellow Mosaic (Bean Yellow Mosaic Virus)

race 12

race 13

race 14

race 19

race 20

race 21

0

B. DI	SEASE REACTIONS (Continued) $0 =$	Not Tested	1 = Susceptible	2 = Resistant	3 = Tolerant	
0	Cowpea Mosaic (Cowp	pea Chlorotic Virus)		#20	070012	2 3
0	Pod Mottle (Bean Pod	Mottle Virus)					
0	Seed Mottle (Soybean	Mosaic Virus)					
Nemato	ode .						
Soybea	n Cyst Nematode (<i>Heter</i>	rodera glycines Ichii	nohe)				
	race 1	race 4	0 race 9				
0	race 2	race 5	1 race 14	1			
1	race 3	race 6	-	(Please Specify)			
0	Lance Nematode (Hopl	lolaimus columbus S	Sher)				
1	Southern Root Knot No	ematode (<i>Meloidog</i>	vne incognita (K	Kofoid & White) Chir	twood)		
0	Northern Root Knot N	ematode (<i>Meloidog</i>	yne hapla Chitw	vood)			
1	Peanut Root Knot Nem	ıatode (<i>Meloidogynd</i>	e arenaria (Neal) Chitwood)			
0	Reniform Nematode (R	Rotylenchus reniforn	us Linwood &	Olivera)			
0	Javanese Nematode (M	eloidogyne javanica	(Treub) Chitw	ood)			
0	Other Nematode (Pleas	e Specify)					
C. PHY	YSIOLOGICAL RESPO	ONSES 0 =	Not Tested	1 = Susceptible	2 = Resistant	3 = Tolerant	
0	Iron Chlorosis on Calca	areous Soil					
0	Phosphorus		Other	(Please Specify)			
0	Boron						
0	Aluminum						
0	Salt						
0	Drought						

17. 12	NSECT REACTIONS	v = Not Tested	1 = Susceptible	2 = Resistant	3 = 1 olerant	
0	Mexican Bean Beetle (Epilachna vai	rivestis Mulsant)		#20	07001	23
0	Potato Leaf Hopper (Empoasca fabo	ae (Harris))				
	Other (Please Specify)					
E. H	ERBICIDE REACTIONS	0 = Not Tested	1 = Susceptible	2 = Resistant		
0	Metribuzin					
0	Bentazone					
0	Sulfonylurea					
2	Glyphosate					
0	Glufosinate					
0	Pendimethalin					
	Other (Please Specify)					
F. TF	ANSGENIC COMPOSITION					
Has th	e development of the subject variety in	icluded the insertion	of genetic material fi	rom an organism	other than a soy	ybean,
or, the	removal of genetic material from the	application variety?	- 3 3 4 4 6]	_
n yes,	please complete the following informa	tion requests*. Use	additional pages if ne	ecessary. X	YES N	O
1. Ple	ase state the vector's name:					
2. Ple	ase state the vector components:					
3. Ple	ase describe the genetic material succ	essfully transferred i	into the subject variet	ty:		
4. Ple	ase describe the insertion protocol:					
* A l	iterature citation(s) explaining the fou	r information reque	sts above may be an a	acceptable altern	ative to completi	on of
the	"Transgenic Composition" portion of	this form,	•	_	•	
168601' 1461 (1	7 is a Roundup Ready [™] variety deriv 995)	red from the Monsan	to transformant 40-3	-2 . Please see Ci	cop Science 35:14	451-
G. BIG	OCHEMICAL MARKERS					
Please	lescribe any biochemical information	here which you ball	ava will be beliefel to	further describing	og the subject	niotr
(e.g. Si	mple Sequence Repeats, Restriction Finecessary.	ragment Length Poly	ymorphisms, Isozymi	c Characterization	ng the subject va on). Use addition	nal

H. COMMENTS

D&PL TECHNOLOGY HOLDING COMPANY, LLC. PLANT VARIETY PROTECTION APPLICATION FOR

SOYBEAN VARIETY: 1686017

Yield Data Variety 1686017

<u>2003-2005</u>				
<u>NAME</u>	<u>Yield</u>	<u>MAT</u>	<u>HT</u>	LOD
DP 7870 RR	46.8	5.0	40.6	1.9
1686017	44.7	4.1	40.2	1.5
H7242RR	41.3	2.9	38.9	1.4
97B52	40.7	0.0	38.3	2.1
DP 7220 RR	38.4	1.1	38.2	1.9
S73-Z5	38.0	1.1	37.8	1.6
Locations	11	6	11	10

Yield Bushels per acre

Maturity Days

Height Plant height in inches

Lodging Rated as 1 = all plants upright to 5 = all plants prostrate

U.S. DEPARTMENT OF ARRICULTURE AGRICULTURE AGRICULTURE AGRICULTURE STATEMENT OF THE BASIS OF OWNERSHIP 1. NAME OF APPLICANT(S) D&PL TECHNOLOGY HOLDING COMPANY, LLC. 9. DEPARTMENT LININGER 4. ADDRESS (Steel and No., or R.F.D. No., City, State, and Zitr, and Country) P.O. BOX 157 SCOTT, MISSISSIPPI 38772 8. Does the applicant own all rights to the variety? Mark an "X" in the appropriate block. If no, please explain. 9. Is the applicant (individual or company) a U.S. national or a U.S. based company? If no, give name of country. Additional explanation on ownership (if needed, use the reverse for extra space). 11. Additional explanation on ownership (if needed, use the reverse for extra space). 12. If the original rights to variety were owned by a company(les), is (are) the original owner(s) a U.S. hashed company? 13. Additional explanation on ownership (if needed, use the reverse for extra space). 14. The original rights to variety are owned by a company(les), is (are) the original owner(s) a U.S. based company? 15. If the original rights to variety are owned by a company(les), is (are) the original owner(s) a U.S. hashed company? 16. How the original rights to variety are owned by a company(les), is (are) the original owner(s) a U.S. based company? 16. How original rights to variety are owned by a company(les), is (are) the original owner(s) a U.S. based company? 17. Additional explanation on ownership (if needed, use the reverse for extra space). 18. The rights to the variety are owned by the company which employees the original owner(s) a U.S. based company? 19. If the original rights to variety were owned by the company which employees the rights to the variety are owned by the company which employees the original breeder in not be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species. 2. If the rights to the variety are owned by the company which employees the original owner and t	REPRODUCE LOCALLY. Include form number and edition date on al	Il reproductions. Fo	ORM APPROVED - OMB No. 0581-005
EXHIBIT E STATEMENT OF THE BASIS OF OWNERSHIP 1. NAME OF APPLICANT(S) D&PL TECHNOLOGY HOLDING COMPANY, LLC. 2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER 98-07088 1886017 4. ADDRESS (Sitest and No., or R.P.D. No., City, State, and ZiP, and Country) P.O. BOX 157 SCOTT, MISSISSIPPI 38772 5. Does the applicant own all rights to the variety? Mark an "X" in the appropriate block, if no, please explain. 2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER 98-07088 1682.742.4141 662.742.3182 7. PVPO NUMBER 42 0 0 7 0 0 1 2 3 6. Does the applicant own all rights to the variety? Mark an "X" in the appropriate block, if no, please explain. 2. Temporary in the applicant own all rights to the variety? Mark an "X" in the appropriate block, if no, please explain. 3. If the original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. hased company? 4. If no, please answer one of the following: a. If the original rights to variety were owned by a company(se), is (are) the original owner(s) a U.S. hased company? 4. If no, give name of country 4. Additional explanation on ownership (if needed, use the reverse for extra space): 16. Boot of the original rights to variety were owned by a company(se), is (are) the original owner(s) a U.S. hased company? 17. Additional explanation on ownership (if needed, use the reverse for extra space): 16. Boot on the original ownership (if needed, use the reverse for extra space): 16. Boot on the original ownership (if needed, use the reverse for extra space): 16. Boot on the original ownership (if needed to the owners (not licensees) who meet the following oriteria: 17. Hit in rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by remained and a country which affords similar protection to nationals of the U.S. for the same person and species. 2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, o	U.S. DEPARTMENT OF AGRICULTURE		
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STATEMENT OF THE BASIS OF OWNERSHIP 1. NAME OF APPLICANTIS D&PL TECHNOLOGY HOLDING COMPANY, LLC. 2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER 98-07088 1686017 4. ADDRESS (Sheet and No., or R.F.D. No., City, State. and ZiP, and Country) P.O. BOX 157 SCOTT, MISSISSIPPI 38772 5. Does the applicant own all rights to the variety? Mark an "X" in the appropriate block. If no, please explain. 7. PVFO NUMBER #2 0 0 7 0 0 1 2 3 8. Does the applicant own all rights to the variety? Mark an "X" in the appropriate block. If no, please explain. 8. Does the applicant (individual or company) a U.S. national or a U.S. based company? If no, please enswer one of the following: a. If the original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. hased company? b. If the original rights to variety were owned by a company(ies), is (are) the original owner(s) a U.S. hased company? T. Additional explanation on ownership (**reeded, use the reverse for extra space): 11. Additional explanation on ownership (**reeded, use the reverse for extra space): 12. If the rights to the variety are owned by a company (ies), is (are) the original owner(s) a U.S. based company? 13. If the variety is a proprietary gene, patented by the Monsanto Company and licensed to D&PL, which encodes a protein which provides tolerance to glyphosate herbicide in soybean cultivars. 14. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by a national of a country which affords similar protection to nationals of the U.S. for the same agenus and species. 2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by the original owner, both the original owner and the applicant must meet one of the above criteria. The original breeder has been controlly on the plant Variety Protection Act for definitions. 2. If the rights to the variety are owned by the company wh	FXHIRIT F		
1. NAME OF APPLICANT(S) D&PL TECHNOLOGY HOLDING COMPANY, LLC. 2. TEMPORARY DESIGNATION OR PAPPLICANT(S) D&PL TECHNOLOGY HOLDING COMPANY, LLC. 3. ADDRESS (Sites and No., or R.F.D. No., City, State, and ZiP, and Country) P.O. BOX 157 SCOTT, MISSISSIPPI 38772 8. Does the applicant own all rights to the variety? Mark an "X" in the appropriate block. If no, please explain. 7. PVPO NUMBER # 2 0 0 7 0 0 1 2 3 8. Does the applicant own all rights to the variety? Mark an "X" in the appropriate block. If no, please explain. 9. Is the applicant (individual or company) a U.S. national or a U.S. based company? If no, give name of country. 10. Is the applicant the original owner? 2. If the original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. based company? 11. Additional explanation on ownership (if needed, use the reverse for extra space): 12. The original rights to variety were owned by a company(lee), is (are) the original owner(s) a U.S. based company? 13. Additional explanation on ownership (if needed, use the reverse for extra space): 14. Additional explanation on ownership (if needed, use the reverse for extra space): 15. The original breader is the variety are owned by the original breader, that person must be a U.S. national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species. 16. FAX (include area code) 66.2.742.4141 7. PVPO NUMBER 8. Does the applicant the original owner(s) a U.S. based company? 16. If the original rights to variety were owned by a company (lee), is (are) the original owner(s) a U.S. based company? 17. PVES WARD AND AND AND AND AND AND AND AND AND AN		ormacinial and the commente is lossed	54 (1 0.5.5. 2425).
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8. Does the applicant own all rights to the variety? Mark an "X" in the appropriate block. If no, please explain. 9. Is the applicant (individual or company) a U.S. national or a U.S. based company? If no, give name of country. 10. Is the applicant the original owner? YES NO If no, please answer one of the following: a. If the original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. National(s)? YES NO If no, give name of country If no, give name of country 11. Additional explanation on ownership (if needed, use the reverse for extra space): 1686017 contains a proprietary gene, patented by the Monsanto Company and licensed to D&PL, which encodes a protein which provides tolerance to glyphosate herbicide in soybean cultivars. 11. If the rights to the variety are owned by the original breader, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species. 2. If the rights to the variety are owned by the original breader, that person must be a U.S. national, national of a UPOV member country, or nationals of a UPOV member country, or owned by nationals of a UPOV member country, or owned by the original breader, that person must be a U.S. had not similar protection to nationals of the U.S. for the same genus and species. 2. If the rights to the variety are owned by the company which employed the original breader(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species. 3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria. The original breeder/owner may be the individual or company who directed the final breeding. See Section 41(s)(2) of the Plant Variety Protection Act for definitions. 70 LES Experiment of A			
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10. Is the applicant the original owner? X a. If the original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. National(s)? NO If no, give name of country b. If the original rights to variety were owned by a company(ies), is (are) the original owner(s) a U.S. based company? YES NO If no, give name of country 11. Additional explanation on ownership (if needed, use the reverse for extra space): 1686017 contains a proprietary gene, patented by the Monsanto Company and licensed to D&PL, which encodes a protein which provides tolerance to glyphosate herbicide in soybean cultivars. PLEASE NOTE: Plant variety protection can only be afforded to the owners (not licensees) who meet the following criteria: 1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species. 2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species. 3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria. The original breeder/owner may be the individual or company who directed the final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definitions. According to the Pagenewis Reduction Act of 1995, as agreeny may not conduct or general and acquired to append to a calleding or information unions a displays a sakif OMS control number. The valid Olds control number for this information surfaces and member of manifest dates. Need a developing the collection of information. The U.S. Department of Application act on the position of all controls according to the reverse of the	9. Is the applicant (individual or company) a U.S. national or a U.S. b	pased company? If no, give name of co	ountry. YES NO
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ST-470-E (07-01) Designed by the Plant Variety Protection Office using Word 2000. Replaces ST-470-E (04-99), which is obsolete.

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, D.C. 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provide and employer.

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The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, farmilial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or part of an individual's income is derived from any public assistance program (Not all prohibited bases apply to a programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD).

To file a complaint of discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410, or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is a equal opportunity provider and employer.

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MD 20705

EXHIBIT F
DECLARATION REGARDING DEPOSIT

	DEGLARATION REGARDING DEF CON		
NAME OF OWNER (S) D&PL Technology Holding Company, LLC.	ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country) P.O. Box 157 Scott, Mississippi 38772	TEMPORARY OR EXPERIMENTAL DESIGNATION 98-07088 VARIETY NAME 1686017	
,,, ,	USA		
NAME OF OWNER REPRESENTATIVE (S)	ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country)	FOR OFFICIAL USE ONLY	
Kelly Casavechia Research Coordinator	P.O. Box 157 Scott, Mississippi 38772	200700123	

I do hereby declare that during the life of the certificate a viable sample of propagating material of the subject variety will be deposited, and replenished as needed periodically, in a public repository in the United States in accordance with the regulations established by the Plant Variety Protection Office.

Signature

Migust 30

Date